



CHEMICAL GROUP
WESTERN REGION

WA 2917
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File

Recycling Solutions for Every Environment

September 10, 1995

CERTIFIED MAIL

Ms. Christy Brown
EPA Project Coordinator
U.S. EPA
1200 Sixth Avenue, M/S HW-106
Seattle, WA 98101

SEP 28 1995

FILE COPY

RCRA PERMITS SECTION

Ms. Brown:

Following is the Bimonthly Progress Report required by the 3008(h) Order for RFI activities completed at the Philip Environmental Inc. (dba Burlington Environmental Inc.) Pier 91 Facility for the months of July and August 1995.

Description of Work Completed

- Water and product levels were measured in wells once each month.
- Completed third quarter 1995 groundwater sampling in July.
- Installed a manual stand-alone oil skimmer in well CP-109 to recover LNAPL (see attached description). The unit is emptied weekly, and after five weeks 0.2 gallons has been recovered. The unit appears to be effective and will be tested in another well after eight weeks of operation in CP-109.

Summary of All Findings

- No significant findings occurred during this period.

Projected Work for Next Reporting Period

- Water and product levels will be measured monthly (pending request to modify schedule).
- Complete fourth quarter 1995 groundwater sampling in October.
- Receive and validate second and third quarter 1995 groundwater monitoring data.
- Install the oil skimmer in a different LNAPL well.
- Resolve the request to modify the frequency of groundwater quality sampling and type of analytes sampled, and to reduce the frequency of water level elevation measurements.

If you have any questions, please contact me at (206) 227-6121.

Respectfully,

John Stiller
Project Coordinator

cc: Galen Tritt, Ecology NWRO

USEPA RCRA



3012366

HORNER'S EZY SKIMMER™

- ◆ Simple
- ◆ Effective
- ◆ Inexpensive

Horner's EZY SKIMMER continuously and automatically syphons floating hydrocarbons from the water surface in a monitoring well without electronics, pumps, valves or man-hours.

Floating hydrocarbons are absorbed and collected through a special filtering process. Recovered hydrocarbons are stored in the collection chamber. When the chamber is full you simply pull the skimmer out and drain the hydrocarbons back into the tank. No pumping or mixture of water and hydrocarbons to dispose of.

- ◆ Special designs available upon request.

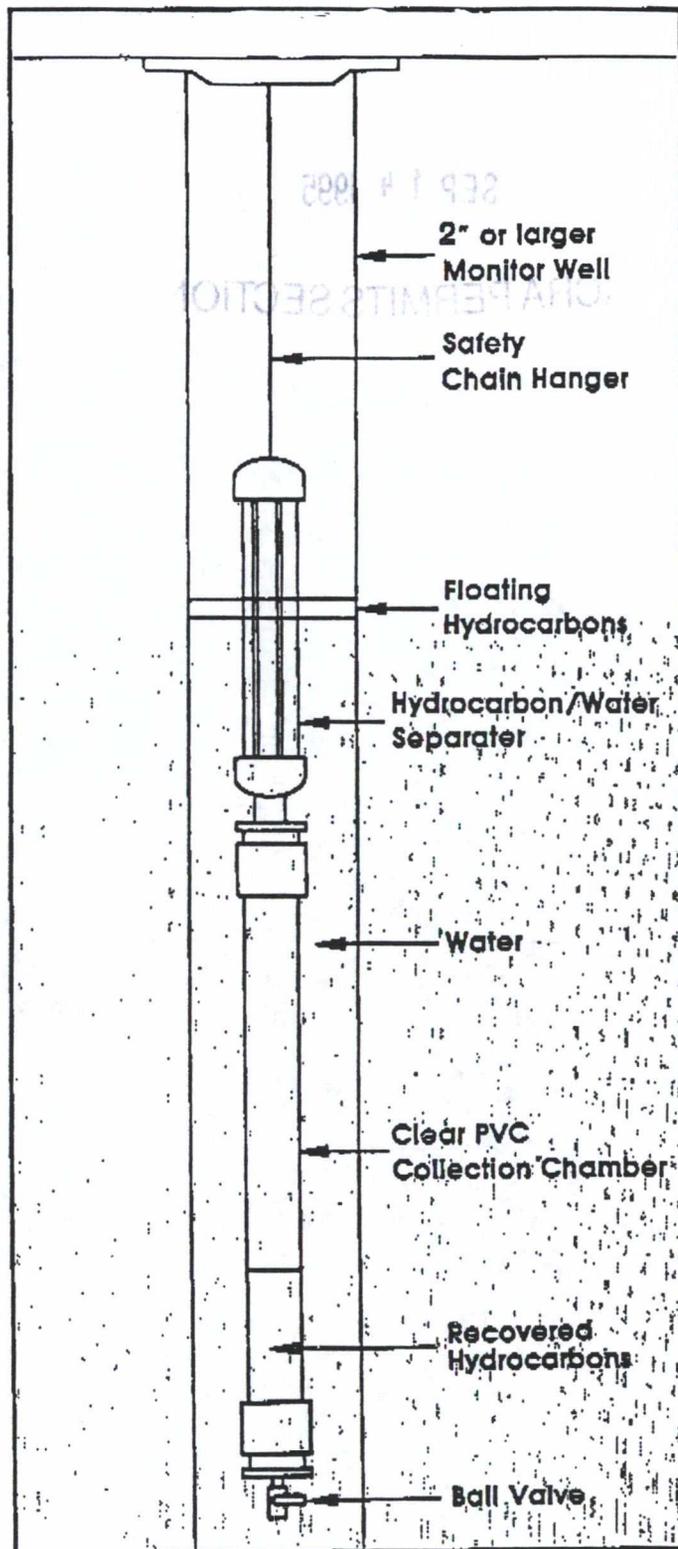


Environmental Instruments Co.
12511 131st Ct NE
Kirkland, WA 98034

ENVIRONMENTAL
INSTRUMENTS



Horner Creative Products, Inc.



HORNER EZY SKIMMER
INSTALLATION PROCEDURES

SEP 14 1995

- RCRA PERMITS SECTION
1. Drill hole in side of monitoring well or well cap. When drilling in a hazardous area use a non power hand drill.
 2. Measure the distance between the hole drilled in step one to liquid level surface.
 3. Add 8" to step 2 measurement.
 4. Using total measurement from step 3, measure from top of clear lower chamber up and place "S" hook in proper link. Allow extra chain slack for areas with tides.
 5. Lower skimmer into well and hook safety chain in hole.
 6. Due to different weights of water, i.e. salt vs fresh, extra weight may have to be added to the skimmer. This can be achieved by sliding the washer(s) down the chain until the liquid surface is approximately 1-1/2" into the filter.
 7. As the lower chamber begins to collect hydrocarbons the unit will begin to sink. If the filter element goes below the water level water will flow into the collection chamber. Correct measurements will prevent this.
 8. The collection chamber's capacity is approximately 0.30 U.S. gallons for the standard 2" X 24" chamber and the 1" X 30" chamber is .1 U.S. gallon. The lower mark (8" from the bottom) on the chamber represents .1 gallon, the 2nd mark (16" from the bottom) represents .2 gallon on the 2" chamber.
 9. When the chamber is full, remove the skimmer from the monitoring well, wipe off the water, open 1/2" valve and drain product back into the tank.

IMPORTANT

- Loosely Tie Vent Line On Safety Chain
- Do NOT Pick Up The Skimmer Using The Vent Line

Dissolved Metals in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Dissolved Nickel (mg/l)	Dissolved Lead (mg/l)	Dissolved Selenium (mg/l)	Dissolved Zinc (mg/l)
CP-103A	04/19/95	<0.040	<0.003	<0.005	<0.020
CP-103B	04/19/95	<0.040	<0.003	<0.005	<0.020
CP-104A	04/10/95	<0.040	<0.003	<0.005	<0.020
CP-104B	04/10/95	<0.040	<0.003	<0.005	<0.020
CP-105A	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-105B	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-106A	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-106B	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-107	04/10/95	<0.040	<0.003	<0.005	<0.020
CP-108A	04/19/95	<0.040	<0.003	<0.005	<0.020
CP-108B	04/19/95	<0.040	<0.003	<0.005	<0.020
CP-109	04/18/95	<0.040	<0.003	<0.005	<0.020
CP-110	04/10/95	<0.040	<0.003	<0.005	<0.020
CP-111	04/20/95	<0.040	<0.003	<0.005	<0.020
CP-112	04/20/95	<0.040	<0.003	<0.005	<0.020
CP-113	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-114	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-115A	04/17/95	<0.040	<0.003	<0.005	<0.020
CP-115B	04/17/95	<0.040	<0.003	<0.005	<0.020
CP-116	04/17/95	<0.040	<0.003	<0.005	<0.020
CP-117	04/17/95	<0.040	<0.003	<0.005	<0.020
CP-118	04/18/95	<0.040	<0.003	<0.005	<0.020
CP-119	04/18/95	<0.040	0.003	<0.005	<0.020
CP-121	04/17/95	<0.040	<0.003	<0.005	<0.020
CP-122B	04/18/95	<0.040	<0.003	<0.005	<0.020
MW-39-3	04/10/95	<0.040	<0.003	<0.005	<0.020
W-10	04/19/95	<0.040	<0.003	<0.005	<0.020

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Dissolved Metals in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Dissolved Silver (mg/l)	Dissolved Arsenic (mg/l)	Dissolved Barium (mg/l)	Dissolved Beryllium (mg/l)	Dissolved Cadmium (mg/l)	Dissolved Chromium (mg/l)	Dissolved Copper (mg/l)	Dissolved Mercury (mg/l)
CP-103A	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-103B	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-104A	04/10/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-104B	04/10/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-105A	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-105B	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-106A	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-106B	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	0.016	<0.025	<0.0002
CP-107	04/10/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-108A	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-108B	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-109	04/18/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-110	04/10/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-111	04/20/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-112	04/20/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-113	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-114	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-115A	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-115B	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	0.011	<0.025	<0.0002
CP-116	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-117	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-118	04/18/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-119	04/18/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-121	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-122B	04/18/95	<0.010	<0.010	<0.20	<0.005	<0.005	0.054	<0.025	<0.0002
MW-39-3	04/10/95	<0.010	0.011	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
W-10	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Total Metals in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Nickel (mg/l)	Lead (mg/l)	Selenium (mg/l)	Zinc (mg/l)
CP-103A	04/19/95	<0.040	<0.003	<0.005	<0.020
CP-103B	04/19/95	<0.040	<0.003	<0.005	<0.020
CP-104A	04/10/95	<0.040	<0.003	<0.005	<0.020
CP-104B	04/10/95	<0.040	<0.003	<0.005	<0.020
CP-105A	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-105B	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-106A	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-106B	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-107	04/10/95	<0.040	<0.003	<0.005	<0.020
CP-108A	04/19/95	<0.040	<0.003	<0.005	<0.020
CP-108B	04/19/95	<0.040	<0.003	<0.005	<0.020
CP-109	04/18/95	<0.040	<0.003	<0.005	<0.020
CP-110	04/10/95	<0.040	0.004	<0.005	<0.020
CP-111	04/20/95	<0.040	<0.003	<0.005	<0.020
CP-112	04/20/95	<0.040	<0.003	<0.005	<0.020
CP-113	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-114	04/11/95	<0.040	<0.003	<0.005	<0.020
CP-115A	04/17/95	<0.040	<0.003	<0.005	<0.020
CP-115B	04/17/95	<0.040	<0.003	<0.005	<0.020
CP-116	04/17/95	<0.040	0.009	<0.005	<0.020
CP-117	04/17/95	<0.040	0.005	<0.005	<0.020
CP-118	04/18/95	<0.040	0.006	<0.005	<0.020
CP-119	04/18/95	<0.040	<0.003	<0.005	<0.020
CP-121	04/17/95	<0.040	<0.003	<0.005	<0.020
CP-122B	04/18/95	<0.040	<0.003	<0.005	<0.020
MW-39-3	04/10/95	<0.040	<0.003	<0.005	<0.020
W-10	04/19/95	<0.040	<0.003	<0.005	<0.020

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Total Metals in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Silver (mg/l)	Arsenic (mg/l)	Barium (mg/l)	Beryllium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Copper (mg/l)	Mercury (mg/l)
CP-103A	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-103B	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-104A	04/10/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-104B	04/10/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-105A	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-105B	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-106A	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-106B	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	0.028	<0.025	<0.0002
CP-107	04/10/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-108A	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-108B	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	0.010	<0.025	<0.0002
CP-109	04/18/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-110	04/10/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-111	04/20/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-112	04/20/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-113	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-114	04/11/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-115A	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-115B	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	0.019	<0.025	<0.0002
CP-116	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-117	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	0.012	<0.025	<0.0002
CP-118	04/18/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-119	04/18/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-121	04/17/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
CP-122B	04/18/95	<0.010	<0.010	<0.20	<0.005	<0.005	0.056	<0.025	<0.0002
MW-39-3	04/10/95	<0.010	0.012	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002
W-10	04/19/95	<0.010	<0.010	<0.20	<0.005	<0.005	<0.010	<0.025	<0.0002

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

PCBs in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Aroclor 1016 (ug/l)	Aroclor 1221 (ug/l)	Aroclor 1232 (ug/l)	Aroclor 1242 (ug/l)	Aroclor 1248 (ug/l)	Aroclor 1254 (ug/l)	Aroclor 1260 (ug/l)
CP-104A	04/10/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CP-106B	04/11/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CP-108A	04/19/95	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CP-110	04/10/95	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
CP-111	04/20/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CP-112	04/20/95	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CP-113	04/11/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CP-114	04/11/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CP-115A	04/17/95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CP-115B	04/17/95	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
CP-116	04/17/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.40	<0.40
CP-117	04/17/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.40	<0.40
CP-118	04/18/95	<1.00	<1.00	<1.00	<0.50	<0.50	<0.50	<0.50
CP-119	04/18/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CP-121	04/17/95	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
CP-122B	04/18/95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-39-3	04/10/95	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	4.6
W-10	04/19/95	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

TPH in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	TPH (as diesel) (mg/l)	TPH (as gasoline) (mg/l)	TPH 418.1 (mg/l)
CP-103A	04/19/95	2.5	4.1	<1
CP-103B	04/19/95	<1	<1	<1
CP-104A	04/10/95	2.1	1.4	2.1
CP-104B	04/10/95	<1	<1	<1
CP-105A	04/11/95	<1	<1	<1
CP-105B	04/11/95	<1	<1	<1
CP-106A	04/11/95	<1	<1	<1
CP-106B	04/11/95	<1	<1	<1
CP-107	04/10/95	2.2	2.6	1.4
CP-108A	04/19/95	<1	<1	<1
CP-108B	04/19/95	<1	<1	<1
CP-109	04/18/95	2.2	4.4	<1
CP-110	04/10/95	4.8	7.3	5.6
CP-111	04/20/95	<1	1	<1
CP-112	04/20/95	<1	<1	<1
CP-113	04/11/95	<1	<1	<1
CP-114	04/11/95	<1	<1	<1
CP-115A	04/17/95	<1	<1	<1
CP-115B	04/17/95	<1	<1	<1
CP-116	04/17/95	5.9	4.8	9.6
CP-117	04/17/95	5.7	86	8.5
CP-118	04/18/95	8.4	9.3	<1
CP-119	04/18/95	11	11	1.6
CP-121	04/17/95	2.4	<1	<1
CP-122B	04/18/95	<5	<5	<1
MW-39-3	04/10/95	71	22	60
W-10	04/19/95	1	2.6	<1

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

SVOCs in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Benzo(k)fluoranthene (ug/l)	Benzo(a)pyrene (ug/l)	Indeno(1,2,3-cd)pyrene (ug/l)	Dibenz(a,h)anthracene (ug/l)	Benzo(g,h,i)perylene (ug/l)
CP-103A	04/19/95	<1	<1	<1	<1	<1
CP-103B	04/19/95	<1	<1	<1	<1	<1
CP-104A	04/10/95	<1	<1	<1	<1	<1
CP-104B	04/10/95	<1	<1	<1	<1	<1
CP-105A	04/11/95	<1	<1	<1	<1	<1
CP-105B	04/11/95	<1	<1	<1	<1	<1
CP-106A	04/11/95	<1	<1	<1	<1	<1
CP-106B	04/11/95	<1	<1	<1	<1	<1
CP-107	04/10/95	<1	<1	<1	<1	<1
CP-108A	04/19/95	<1	<1	<1	<1	<1
CP-108B	04/19/95	<2	<2	<2	<2	<2
CP-109	04/18/95	<5	<5	<5	<5	<5
CP-110	04/10/95	<1	1	<1	<1	<1
CP-111	04/20/95	<1	<1	<1	<1	<1
CP-112	04/20/95	<1	<1	<1	<1	<1
CP-113	04/11/95	<1	<1	<1	<1	<1
CP-114	04/11/95	<1	<1	<1	<1	<1
CP-115A	04/17/95	<1	<1	<1	<1	<1
CP-115B	04/17/95	<1	<1	<1	<1	<1
CP-116	04/17/95	<5	<5	<5	<5	<5
CP-117	04/17/95	<5	<5	<5	<5	<5
CP-118	04/18/95	<5	<5	<5	<5	<5
CP-119	04/18/95	<5	<5	<5	<5	<5
CP-121	04/17/95	<1	<1	<1	<1	<1
CP-122B	04/18/95	<1	<1	<1	<1	<1
MW-39-3	04/10/95	1 J	1 J	1 J	<1	1 J
W-10	04/19/95	<1	<1	<1	<1	<1

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SVOCs in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Benzidine (ug/l)	Butyl benzyl phthalate (ug/l)	3,3'-Dichloro benzidine (ug/l)	Benzo(a) anthracene (ug/l)	Chrysene (ug/l)	bis(2-Ethyl hexyl)phthalate (ug/l)	Di-n-octyl phthalate (ug/l)	Benzo(b) fluoranthene (ug/l)
CP-103A	04/19/95	<25	<1	<10	<1	<1	1	<1	<1
CP-103B	04/19/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-104A	04/10/95	<25	<1	<10	<1	<1	1	<1	<1
CP-104B	04/10/95	<25	<1	<10	<1	<1	1	<1	<1
CP-105A	04/11/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-105B	04/11/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-106A	04/11/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-106B	04/11/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-107	04/10/95	<25	<1	<10	<1	<1	5	<1	<1
CP-108A	04/19/95	<25	<1	<10	<1	<1	2	<1	<1
CP-108B	04/19/95	<50	<2	<20	<2	<2	<2	<2	<2
CP-109	04/18/95	<120	<5	<10	<5	<5	<5	<5	<5
CP-110	04/10/95	<25	<1	<10	1	1	5	<1	<1
CP-111	04/20/95	<25	<1	<10	<1	<1	1	<1	<1
CP-112	04/20/95	<25	<1	<10	<1	<1	2	<1	<1
CP-113	04/11/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-114	04/11/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-115A	04/17/95	<25	<1	<10	<1	<1	2	<1	<1
CP-115B	04/17/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-116	04/17/95	<120	<5	<50	<5	<5	6	<5	<5
CP-117	04/17/95	<120	<5	<10	<5	<5	8	<5	<5
CP-118	04/18/95	<120	<5	<10	<5	<5	<5	<5	<5
CP-119	04/18/95	<120	<5	<10	<5	<5	(2) J	<5	<5
CP-121	04/17/95	<25	<1	<10	<1	<1	<1	<1	<1
CP-122B	04/18/95	<25	2	<10	<1	<1	3	<1	<1
MW-39-3	04/10/95	<25	<1	<10	2	1 J	2	<1	1 J
W-10	04/19/95	<25	<1	<10	<1	<1	2 J	<1	<1

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SVOCs in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Hexachloro benzene (ug/l)	Pentachloro phenol (ug/l)	Phenanthrene (ug/l)	Anthracene (ug/l)	Carbazole (ug/l)	Di-n-butyl phthalate (ug/l)	Fluoranthene (ug/l)	Pyrene (ug/l)
CP-103A	04/19/95	<2	<10	1 J	<1	<1	<1	<1	1
CP-103B	04/19/95	<2	<10	<1	<1	<1	<1	<1	<1
CP-104A	04/10/95	<2	<10	4	1	<1	1	1	1
CP-104B	04/10/95	<2	<10	<1	<1	<1	<1	<1	<1
CP-105A	04/11/95	<2	<10	<1	<1	<1	<1	<1	<1
CP-105B	04/11/95	<2	<10	<1	<1	<1	<1	<1	<1
CP-106A	04/11/95	<2	<10	1	<1	<1	<1	1	1
CP-106B	04/11/95	<2	<10	<1	<1	<1	<1	<1	<1
CP-107	04/10/95	<2	<10	4	<1	<1	<1	1	1
CP-108A	04/19/95	<2	<10	1	<1	<1	<1	<1	<1
CP-108B	04/19/95	<4	<20	<2	<2	<2	<2	<2	<2
CP-109	04/18/95	<10	<10	<5	<5	<5	<5	<5	<5
CP-110	04/10/95	<2	<10	<1	<1	<1	<1	1	2
CP-111	04/20/95	<2	<10	1	<1	<1	<1	<1	<1
CP-112	04/20/95	<2	<10	<1	<1	<1	2	<1	<1
CP-113	04/11/95	<2	<10	<1	<1	<1	<1	<1	<1
CP-114	04/11/95	<2	<10	<1	<1	<1	<1	<1	<1
CP-115A	04/17/95	<2	<10	<1	<1	<1	2	<1	<1
CP-115B	04/17/95	<2	<10	<1	<1	<1	<1	<1	<1
CP-116	04/17/95	<10	<50	8	<5	(3) J	<5	(2) J	(3) J
CP-117	04/17/95	<10	<10	9	<5	<5	<5	<5	<5
CP-118	04/18/95	<10	<10	12	<5	<5	<5	<5	<5
CP-119	04/18/95	<10	<10	14	<5	<5	<5	<5	(2) J
CP-121	04/17/95	<2	(1) J	<1	<1	<1	<1	<1	1
CP-122B	04/18/95	<2	<10	<1	<1	<1	1	<1	<1
MW-39-3	04/10/95	<2	<10	24	<1	<1	<1	2	3
W-10	04/19/95	<2	<10	4	<1	2	2	<1	<1

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SVOCs in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Diethylphthalat (ug/l)	4-Chlorophenyl phenyl ether (ug/l)	Fluorene (ug/l)	4-Nitroaniline (ug/l)	4,6-Dinitro- 2-methylphenol (ug/l)	N-Nitroso diphenylamine (ug/l)	1,2-Diphenyl hydrazine (ug/l)	4-Bromophenyl phenyl ether (ug/l)
CP-103A	04/19/95	<1	<1	6	<2	<10	<1	<2	<2
CP-103B	04/19/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-104A	04/10/95	<1	<1	28	<2	<10	<1	<2	<2
CP-104B	04/10/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-105A	04/11/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-105B	04/11/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-106A	04/11/95	<1	<1	1	<2	<10	<1	<2	<2
CP-106B	04/11/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-107	04/10/95	<1	<1	10	<2	<10	<1	<2	<2
CP-108A	04/19/95	<1	<1	4	<2	<10	<1	<2	<2
CP-108B	04/19/95	<2	<2	<2	<4	<20	<2	<4	<4
CP-109	04/18/95	<5	<5	6	<10	<10	<5	<10	<10
CP-110	04/10/95	<1	<1	17	<2	<10	<1	<2	<2
CP-111	04/20/95	<1	<1	5	<2	<10	<1	<2	<2
CP-112	04/20/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-113	04/11/95	<1	<1	1	<2	<10	<1	<2	<2
CP-114	04/11/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-115A	04/17/95	<1	<1	1	<2	<10	<1	<2	<2
CP-115B	04/17/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-116	04/17/95	<5	<5	8	<10	<50	<5	<10	<10
CP-117	04/17/95	<5	<5	6	<10	<10	<5	<10	<10
CP-118	04/18/95	<5	<5	16	<10	<10	<5	<10	<10
CP-119	04/18/95	<5	<5	10	<10	<10	<5	<10	<10
CP-121	04/17/95	<1	<1	<1	<2	<10	<1	<2	<2
CP-122B	04/18/95	<1	<1	<1	<2	<10	<1	<2	<2
MW-39-3	04/10/95	<1	<1	20	<2	<10	<1	<2	<2
W-10	04/19/95	<1	<1	4	<2	<10	<1	<2	<2

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SVOCs in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	Acenaphthylene (ug/l)	2,6-Dinitro toluene (ug/l)	3-Nitroaniline (ug/l)	Acenaphthene (ug/l)	2,4-Dinitro phenol (ug/l)	4-Nitrophenol (ug/l)	Dibenzofuran (ug/l)	2,4-Dinitro toluene (ug/l)
CP-103A	04/19/95	<1	<2	<5	3	<10	<10	<1	<2
CP-103B	04/19/95	<1	<2	<5	<1	<10	<10	<1	<2
CP-104A	04/10/95	<1	<2	<5	52	<10	<10	1	<2
CP-104B	04/10/95	<1	<2	<5	<1	<10	<10	<1	<2
CP-105A	04/11/95	<1	<2	<5	<1	<10	<10	<1	<2
CP-105B	04/11/95	<1	<2	<5	<1	<10	<10	<1	<2
CP-106A	04/11/95	<1	<2	<5	1	<10	<10	1	<2
CP-106B	04/11/95	<1	<2	<5	<1	<10	<10	<1	<2
CP-107	04/10/95	<1	<2	<5	5	<10	<10	<1	<2
CP-108A	04/19/95	<1	<2	<5	2	<10	<10	2	<2
CP-108B	04/19/95	<2	<4	<10	<2	<20	<20	<2	<4
CP-109	04/18/95	<5	<10	<25	<5	<10	<10	(3) J	<10
CP-110	04/10/95	<1	<2	<5	7	<10	<10	<1	<2
CP-111	04/20/95	<1	<2	<5	4	<10	<10	<1	<2
CP-112	04/20/95	<1	<2	<5	7	<10	<10	<1	<2
CP-113	04/11/95	<1	<2	<5	1	<10	<10	<1	<2
CP-114	04/11/95	<1	<2	<5	<1	<10	<10	<1	<2
CP-115A	04/17/95	<1	<2	<5	1	<10	<10	<1	<2
CP-115B	04/17/95	<1	<2	<5	<1	<10	<10	<1	<2
CP-116	04/17/95	<5	<10	<25	6	<50	<50	(4) J	<10
CP-117	04/17/95	<5	<10	<25	(4) J	<10	<10	<5	<10
CP-118	04/18/95	<5	<10	<25	7	<10	<10	8	<10
CP-119	04/18/95	<5	<10	<25	7	<10	<10	5	<10
CP-121	04/17/95	<1	<2	<5	<1	<10	<10	<1	<2
CP-122B	04/18/95	<1	<2	<5	<1	<10	<10	<1	<2
MW-39-3	04/10/95	<1	<2	<5	<1	<10	<10	<1	<2
W-10	04/19/95	<1	<2	<5	2	<10	<10	3	<2

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SVOCs in Groundwater
Pier 91 Facility
2nd Quarter 1995

SITE	DATE	4-Chloro-3-methylphenol (ug/l)	2-Methyl naphthalene (ug/l)	Hexachloro cyclopentadiene (ug/l)	2,4,6-Trichloro phenol (ug/l)	2,4,5-Trichloro phenol (ug/l)	2-Chloro naphthalene (ug/l)	2-Nitroaniline (ug/l)	Dimethyl phthalate (ug/l)
CP-103A	04/19/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-103B	04/19/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-104A	04/10/95	<2	1	<2	<2	<2	<1	<2	<1
CP-104B	04/10/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-105A	04/11/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-105B	04/11/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-106A	04/11/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-106B	04/11/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-107	04/10/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-108A	04/19/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-108B	04/19/95	<4	<2	<4	<4	<4	<2	<4	<2
CP-109	04/18/95	<10	52	<10	<10	<10	<5	<10	<5
CP-110	04/10/95	<2	46	<2	<2	<2	<1	<2	<1
CP-111	04/20/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-112	04/20/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-113	04/11/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-114	04/11/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-115A	04/17/95	3	<1	<2	<2	<2	<1	<2	<1
CP-115B	04/17/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-116	04/17/95	150	28	<10	<10	<10	<5	<10	<5
CP-117	04/17/95	<10	74	<10	<10	<10	<5	<10	<5
CP-118	04/18/95	160	130	<10	<10	<10	<5	<10	<5
CP-119	04/18/95	<10	140	<10	<10	<10	<5	<10	<5
CP-121	04/17/95	<2	<1	<2	<2	<2	<1	<2	<1
CP-122B	04/18/95	<2	<1	<2	<2	<2	<1	<2	<1
MW-39-3	04/10/95	<2	190	<2	<2	<2	<1	<2	<1
W-10	04/19/95	<2	27	<2	<2	<2	<1	<2	<1

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